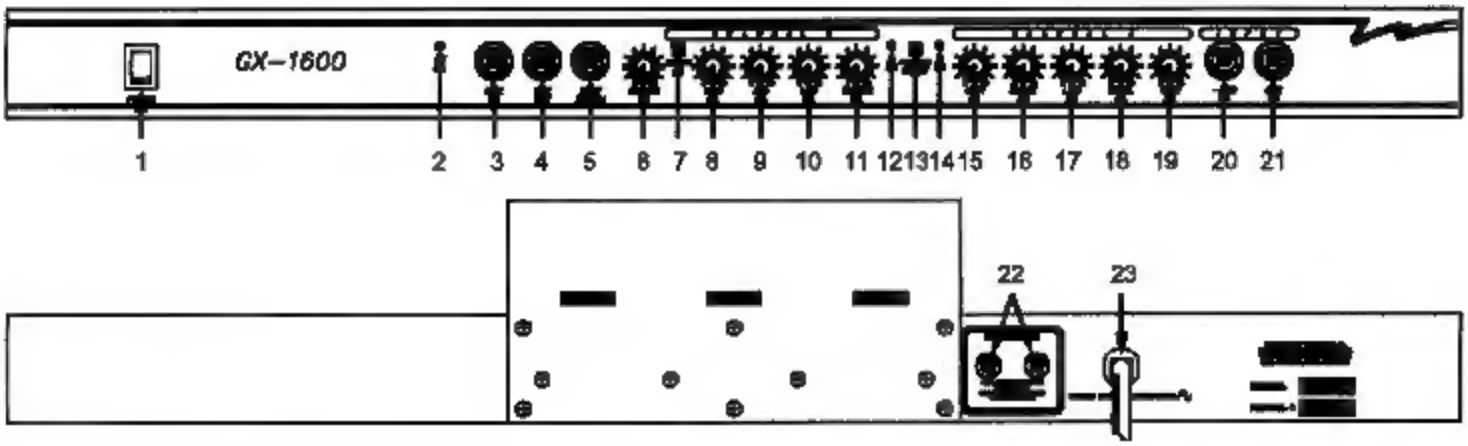
GX-600/GX-1600

GUITAR AMPLIFIER



GX-600H/GX-1600H GUITAR AMPLIFIER

FRONT PANEL

1. **Power** switch turns AC power on or off.
2. **Power Indicator LED** will be lit when the unit is turned on.
3. **Line In** jack is used as a direct input to the power amp. It can be used in conjunction with the Line Out jack (4) as an effects loop.
4. **Line Out** jack is used to link the GX-600H/GX-1600H to additional amplifiers or to connect the amp to a tape recorder. Simply run a cable from this jack to the input of another amplifier or tape deck. External speakers can not be hooked up to this jack.
5. **Footswitch** jack is to be used with the Channel Select/Reverb footswitch.
6. **Reverb** control allows the player to alter the apparent acoustical qualities of a room. The sound can be altered from very "flat" or "dry" when the control is turned down, to that of a concert hall when used on higher settings.

CHANNEL B CONTROLS

7. **Bright** switch affects the brilliance of the guitar's sound by adding additional "bite" or sharpness. This switch affects only Channel B.
8. **High** controls the upper range of frequencies and adds brightness. For additional affect, use this control in conjunction with the Bright switch (7).
9. **Mid** tends to add a "thinner" sound when turned down, or a "fatter" characteristic to the sound when turned up.
10. **Low** adjusts the bass range in the amplifier.
11. **Volume** control sets the overall listening level of Channel B. This control is independent of any setting made in Channel A.
12. **Channel B Indicator LED** is lit when the amplifier is in Channel B mode.
13. **Channel Select** switch is used to select between Channel A and Channel B.
14. **Channel A Indicator LED** is lit when the amplifier is in Channel A mode.

CHANNEL A CONTROLS

15. **High** controls the upper range of frequencies and adds brightness.
16. **Shape** is the overall tone control for Channel A. When turned to the left, a setting with heavy emphasis on midrange is achieved. When rotated to the right, the amp creates a "fat" sound with extra boost on lows and highs.
17. **Low** adjusts the bass range in the amplifier.
18. **Level** control sets the overall volume and should be used in conjunction with the Gain control (19).
19. **Gain** sets the amount of gain for Channel A and is used to vary the amount of distortion. Minimal distortion is achieved with this control rotated counter-clockwise. A fully clockwise setting creates maximum distortion.

INPUT SECTION

20. **-6dB Input** jack also accepts a standard 1/4" jack but is padded 6dB for hotter inputs such as tape decks or guitars with hot pickups. If both jacks are used, this input is not padded and will be equal to the 0dB input jack.
21. **0dB Input** jack accepts a standard 1/4" phone plug and is suitable for any low to line level signal source such as an electric guitar.

REAR PANEL

22. **External Speaker** jacks are used to connect the speakers to the power amp. The GX-600H/GX-1600H external jacks are hooked up in parallel; so adding additional speakers will lower the total load impedance of the power amp. Do not go below 2 ohms total load impedance.
23. **Power Cord:** Your GX-600H/GX-1600H is equipped with a heavy-duty grounded three-wire power cord. Be sure this cord is properly plugged into a safely wired grounded 120 volt, 60 Hz AC power outlet before use. (If your GX-600H/GX-1600H was purchased outside the United States, refer to the rear panel for power ratings). For your safety, never attempt to defeat the ground connection on this cord.

We would like to take this opportunity to thank you for selecting a Crate product, and to tell you of our commitment to the design and manufacture of only the finest sound amplification equipment; built for you, the musician.

You have purchased one of the most innovative guitar amps available today. Your Crate amp gives you more performance features than ever before; features that you, the musician, have asked for.

Your Crate guitar amp is an American product, manufactured at our factory in St. Louis, Missouri. Only the finest available components and materials are used in the manufacture of each amplifier.

All Crate products are subjected to seven or more inspection and testing steps to assure you of a high quality product. The final test for each unit is conducted by a trained musician; any unit that does not meet the standards of our musician's discriminating ear will not be passed.

Since all Crate products are designed, developed, and manufactured through the cooperative efforts of engineers and professional musicians, the end result is a product that responds to the musician's audio requirements, and a product that will serve your needs for years to come.

GX-600H/GX-1600H TECHNICAL SPECIFICATIONS

Maximum Input Signal Level Accepted		4 volts peak to peak/0dB Input; 8 volts peak to peak/16dB input
Input Power Requirements		GX-600H: 120VAC, 60Hz, 200 watts max.; GX-1600H: 120VAC, 60Hz, 500 watts max.
Input Impedance		220k ohms/0dB Input; 44k ohms/-6dB Input
Total System Gain		Channel A: 110dB @ 1kHz, all controls at "10", Low, Shape, High at "0" Channel B: 60dB @1kHz, all controls at "10", Bright off
Signal to Noise Ratio		Channel A: 45dB with all controls at"10", Low, Shape, High at "0" Channel B: 67dB with all controls at "10", Bright off
Output Power Rating		GX-600H: 60 watts RMS @ 5% THD/4 ohm load; GX-1600H: 160 watts RMS @ 5% THD/4 ohm load
Channel A	Low Control	9dB Boost @ 80Hz
	Shape Control	Proprietary Circuit
	High Control	15dB Range @ 1kHz
Channel B	Low Control	10dB Range @ 80Hz
	Mid Control	16dB Range @ 1kHz
	High Control	17dB Range @ 5kHz
Fuse Rating and Type		GX-600H: 2A Slo Blo, 250V Internal GX-1600H: 5A Slo Blo, 250V Internal
Speaker Cabinet Options		GE-412R or S: 4-12" Crate Custom-L speakers in a straight or slope front infinite baffle enclosure Power Handling: 80 watts RMS @ 4 ohms; 35"H x 31"W x 15"D, 90 lbs. GE-412RS or SS: 4-12 Celestion G12S-50 speakers in a straight or slope front infinite baffle enclosure Power Handling: 200 watts RMS @ 8 ohms; 35"H x 31"W x 15"D, 90lbs.
Cabinet Size and Weight		11.625"H x 30.75"W x 11"D 35 lbs.

Specifications subject to change without notice.

CAUTION: To reduce the risk of electric shock, do not open chassis. No user serviceable parts inside. Refer servicing to qualified service personnel.

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